

CLAIMS

1. A method of recording playback speed information on a recording medium, comprising:

recording a video data on the recording medium; and
5 recording playback speed information for the video data ahead of a data area where the video data is recorded.

2. The method as set forth in claim 1, wherein the playback speed information is recorded within a disc information table allocated in a PIC area on the recording
10 medium.

3. The method as set forth in claim 2, wherein the playback speed information is recorded in one-byte-long field of maximum transfer rate of application allocated in the disc information table.

15 4. The method as set forth in claim 2, wherein the playback speed information is recorded within a part of a reserved area field allocated in the disc information table.

5. The method as set forth in claim 1, wherein the playback speed information is determined such that the video
20 data on the recording medium is reproduced at a transfer rate of 36Mbps or faster.

6. The method as set forth in claim 1, wherein the playback speed information is determined such that the video data on the recording medium is reproduced at a transfer rate
25 of 40Mbps or faster.

7. The method as set forth in claim 1, wherein the playback speed information is recorded as a ratio of transfer rate of the video data to a standard transfer rate of a digital television broadcast stream.

30 8. A recording medium, comprising:
a data area storing video data recorded thereon; and
playback speed information about transfer rate of the video data, wherein the playback speed information is recorded ahead of the data area.

35 9. The recording medium as set forth in claim 8, wherein

the playback speed information is recorded within a disc information table allocated in a PIC area on the recording medium.

10. The recording medium as set forth in claim 9, wherein
5 the playback speed information is recorded in one-byte-long field of maximum transfer rate of application allocated in the disc information table.

11. The recording medium as set forth in claim 9, wherein the playback speed information is recorded within a reserved
10 area field allocated in the disc information table.

12. The recording medium as set forth in claim 8, wherein the playback speed information is determined such that the video data on the recording medium is reproduced at a transfer rate that is equal to or faster than a standard transfer rate
15 of a digital television broadcast stream.

13. The recording medium as set forth in claim 8, wherein the playback speed information is recorded as a ratio of transfer rate of the video data to a standard transfer rate of a digital television broadcast stream.

20 14. A method of reproducing a video data recorded on a recording medium, comprising the steps of:

driving the recording medium on which the video data is recorded;

obtaining playback speed information for the video data
25 from the recording medium; and

reproducing the video data while driving the recording medium at a speed equal to or faster than a speed specified by the playback speed information.

15. The method as set forth in claim 14, wherein the
30 driving step drives the recording medium at a predetermined basic speed of the recording medium.

16. The method as set forth in claim 14, wherein the driving step drives the recording medium for a data area at a maximum speed at which a disc reproducing apparatus can read
35 out data from the data area including the playback speed information.

17. The method as set forth in claim 14, wherein the

playback speed information is obtained from a disc information allocated in a PIC area on the recording medium.

18. The method as set forth in claim 14, wherein in the reproducing step, the recording medium is driven such that the
5 video data is read out at a transfer rate that is equal to or faster than a standard transfer rate of digital television broadcast stream.

19. The method as set forth in claim 14, wherein, in the reproducing step, if it is determined that the recording
10 medium can not be driven exactly at a speed specified by the playback speed information, and if a disc reproducing apparatus supports multiple playback speed levels, the video data is reproduced at a speed that is the closest one faster
than the specified speed among the multiple playback speed
15 levels.